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- (56) Documents cited

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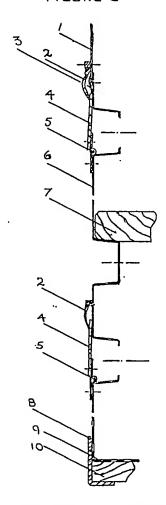
(58) Field of search

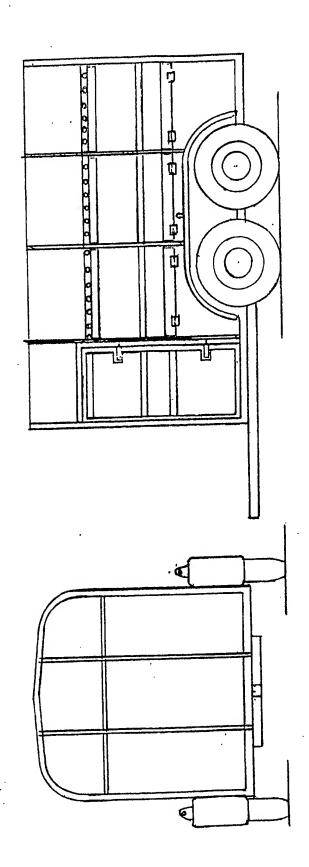
B7B B7L

(54) Vehicle body or container construction

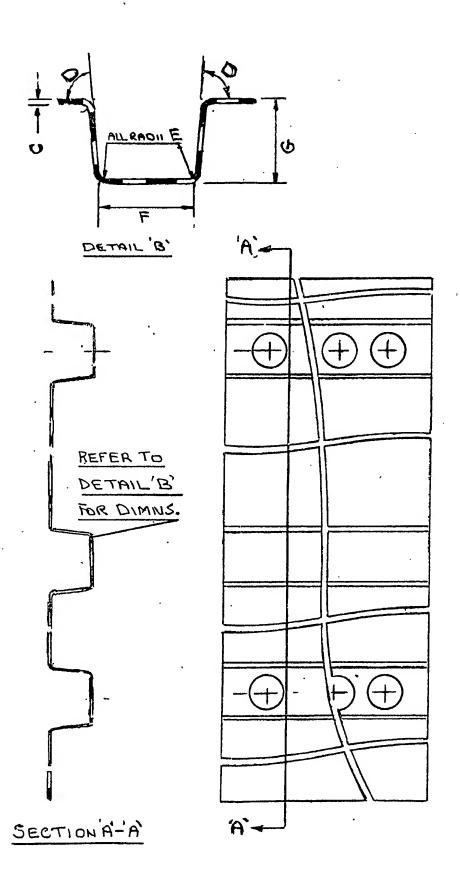
(57) A box trailer, vehicle body or container has body side front or rear panels manufactured from sheet materials incorporating large internally facing swages positioned horizontally. The panels are supported on the exterior by means of vertical members. Intermediate internal flooring 7 can be positioned using the top horizontal surfaces of the body panel swages. Ventilation to the interior can be obtained from holes 4 pierced through the base of each panel swage and be controlled by flaps 5 or slides fitted to the exterior or interior of the panels.

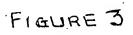
FIGURE 3

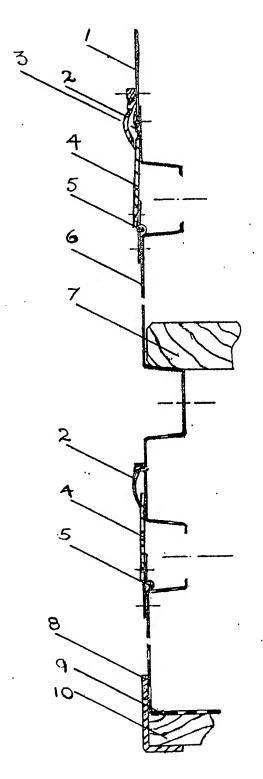




FIGURE







SPECIFICATION

Trailer body construction

5 The design in this application indicates a method of construction which can be used for trailers, vehicle 5 bodies and containers.

The main feature of the design is the method used for the manufacture of the side, front and rear panels. In some applications they could be incorporated into the roof components.

These panels are manufactured from sheet material with large rectangular swages formed in them. When 10 used for front, rear or side panels for a trailer the swages are positioned horizontally and are formed to face inwards during assembly. The number of swages incorporated in each panel and the distances between them are determined by the overall panel size and the use for which the structure is designed.

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They are supported by externally sited vertical members which may be fixed to the external surface of each panel.

The swages provide sufficient rigidity in each sheet such that additional horizontal members are not required to be located to the panel sides during assembly.

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They are also deep enough and strong enough to support any intermediate flooring, thus eliminating the need for additional internal horizontal bearers which are normally located to the internal surfaces at each side of the structure.

Pierced holes of any shape may be incorporated in the base of the swages to provide ventilation to the interior. When used for side panels and pierced holes are included, flaps may be positioned on the outer or inner surfaces of the swages to control ventilation to the interior. They may be located by hinges or allowed 20

Materials used for the manufacture of the panels may be steel, light alloy or composite materials.

Should manufacturing in one piece be difficult to achieve, then the panels may be made in smaller sections and joined along either or both axes.

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Figure 1 illustrates a cattle trailer incorporating one piece side panels and an access door on one side, constructed using this method.

Figure 2 gives details of the panel, material, ventilation holes and intermediate deck bearer swage used for 30 this range of trailers.

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Figure 3 shows a cross section through a side panel assembly used for these trailers. The methods used for locating the roof panel, the ventilation flap assembly and the intermediate floor are illustrated.

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Key to dimensions

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	REFERENCE LETTER	DIMENSIONS		
40	С	2 mm	4	0
	D	85°		
	E	⅓ INCH		
	F	2 INCH (INSIDE)		
	G	1% INCH		

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	·		
		Key to reference numerals	
	ITEM NO.	DESCRIPTION	
5	· 1	ROOF PANEL (22 SWG. GALV.)	· ·5
	2	FLAP CATCH	
10	3	MOULDING (1" ALUM)	10
	4 .	FLAP (12 SWG ALUM)	
	5	BUTT HINGE	
15	6	SIDE PANEL (2mm ALUM.)	15
	7	INTER FLOOR (SOFTWOOD)	
20	8	CHASSIS SIDE MEMBER	20
	. 9	CHECK PLATE (3 mm ALUM.)	
	10	1ST FLOOR (SOFTWOOD)	
25			25
30 from 2. inco 3.	A box trailer, vehicle body or con a sheet materials incorporating lar A box trailer, vehicle body or con rporated in each panel may be var	ntainer constructed with body side, front or rear panels manufactured ge internally facing swages positioned horizontally in the sheeting. ntainer as claimed in Claim 1 wherein the number of swages ried. ntainer as claimed in Claim 1 or Claim 2 wherein the dimensional sizes	30
35 4. betw 5.	A box trailer, vehicle body or conveen the swages may be varied. A box trailer, vehicle body or converse.	ntainer as claimed in any preceding claim wherein the dimensions ntainer as claimed in any previous claim wherein each panel is	35
6. 40 man 7. for t	ufactured in small sections and jo A box trailer, vehicle body or co he manufacture of the panels may	ntainer as claimed in any previous claim wherein the panels are ined along any axis. ntainer as claimed in any preceding claim wherein the materials used be steel, light alloy or composite materials.	40
sup; 45 9. floor 10 may	ported by externally sited vertical in A box trailer, vehicle body or control of the top so ring may be supported by the top so by A box trailer, vehicle body or control of the base of each	ontainer as claimed in Claims 1 - 8 wherein pierced holes of any shape each or any swage to provide ventilation to the interior.	45
50 the 6 12 the i 13	exterior surface of each panel or pa 2. A box trailer, vehicle body or co interior surface of the panel or pan	ontainer as claimed in Claim 10 wherein flaps may be positioned on anels to cover the swages and control ventilation. ontainer as claimed in Claim 10 wherein flaps may be positioned on a less to cover the swages and control ventilation. ontainer as claimed in Claim 11 or Claim 12 wherein the ventilation tion.	50
ee 14		onteiner as claimed in Claim 11 or Claim 12 wherein the ventilation	55

14. A box trailer, vehicle body or container as claimed in Claim 11 or Claim 12 wherein the ventilation

15. A box trailer for the conveyance of livestock substantially as described herein with reference to

flaps may slide to control ventilation.

Figures 1 - 3 of the accompanying drawings.